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Annual Summary of Fish and Marine Mammal Harvest Data for the Northwest Territories

1988 - 1989

Volume 1

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Annual Summary of Fish and Marine Mammal Harvest Data for the Northwest Territories

1988 - 1989

Volume 1

Freshwater Institute
Central and Arctic Region
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INTRODUCTION

This is the fish and marine mammal harvest statistics report on information collected by the Department of Fisheries and Oceans (DFO) for the Northwest Territories (N.W.T.) for the period 01 April 1988 to 31 March 1989. Harvest statistics are presented for the entire N.W.T. and for each of three DFO administrative areas.

The report details harvest statistics for each of the commercial and exploratory fisheries, marine mammal harvesting and recreational fisheries. Data on domestic fishing and the harvest of seals are not currently available. These data will be reported at such time as DFO's harvest statistics programs are expanded to monitor these fisheries.

In addition to harvest data, related information is presented on the landed value of commercial harvests, the number of commercial and recreational fishing licenses issued, and the number of sports fishing lodges. Commercial and exploratory fisheries for which effort data (number of days, number and size of nets) and biological samples (weight and length measurements, aging structures, maturation information) have been collected are identified.

The report is a consolidation of information collected by DFO staff in area offices in Inuvik, Hay River and Iqaluit and regional headquarters in Winnipeg. Some of the information presented was provided by the Government of the Northwest Territories. The Department of Renewable Resources compiles vendor sales reports which were the source of the recreational fishing licence information. The Northwest Territories Fishing Guide, published by TravelArctic, was the source of information on the number and bed capacity of sports fishing lodges.

While in the past harvest studies for the N.W.T. fishery have largely addressed specific fisheries, three recent projects provide a comprehensive review of the N.W.T. fishery. Yaremchuk et al. (1989) summarized commercial harvest statistics collected by DFO and other agencies from the inception of commercial fishing in 1945 through to 1987. McGowan (1989) summarized the results of test fisheries conducted in the N.W.T. from 1985 to 1988. Strong (1989) summarized the narwhal, beluga and walrus harvest for the period 1948 to 1987 using information collected by DFO starting in the latter part of the 1970's, and earlier information collected by other agencies and individual researchers.

This report will be prepared annually to ensure that DFO harvest information is readily accessible to DFO staff and clients.

DATA SOURCES AND DATA COLLECTION

DFO maintains Area offices in the Western Arctic (Inuvik), the South/Central Arctic (Yellowknife and Hay River) and the Eastern Arctic (Iqaluit and Rankin Inlet) (Fig. 1). The Areas implement fishery and habitat management plans and programs through allocation, licensing, monitoring and compliance activities. While the same basic fish and marine mammal harvest data are used for management purposes, the Areas tailor the data collection methods to reflect differences in the nature and organization of the fisheries.

WESTERN ARCTIC AREA

Commercial Fisheries

Commercial fishermen in the Western Arctic fish primarily for their own use, but may sell some of their harvest locally. Markets are not organized formally, so it is not feasible to collect data at the point of sale using methods common to commercial fisheries elsewhere in the N.W.T.

DFO conducts a mail out survey of licence holders requesting information for the entire year on the number of days fished, the gear used, and the number of fish of each species caught and sold. Commercial harvest data are reported by community rather than by waterbody since the survey does not ask fishermen to identify the waters fished. Nor does it ask fishermen to report on the amount they were paid for fish sales. Landed values are therefore estimated based on estimated spot prices for fish and could be subject to error. Another possible source of error comes from estimating the weight of commercial harvest by multiplying the reported numbers of fish harvested by an estimated average weight for each species. And finally, the data are likely affected by recall error because fishermen are asked to report on their fishing activities for an entire year.

In 1988/89, 28 of 40 commercial license holders participated in the survey. No attempt has been made to estimate the harvest of all commercial fishermen based on this sample.

Marine Mammal Harvests

The Inuvialuit Harvest Study, initiated under the land claim settlement for the Western Arctic, enables monitoring of domestic fish and some marine mammal harvests of the six Western Arctic communities in the Inuvialuit Settlement Area (Fig. 2). Data are collected on a monthly basis by personal interviews with hunters and fishermen in each community and then collated and analyzed by the Harvest Study Coordinator.

The Fisheries Joint Management Committee (FJMC), also established under the terms of the land claim settlement for the Western Arctic, advises the Minister of Fisheries and Oceans on matters relating to the Inuvialuit Settlement Region fisheries. The FJMC, made up of equal representatives of Government and the Inuvialuit Game Council, runs a separate harvest monitoring program for beluga and walrus. This study is designed to provide more precise information than the Harvest Study to ensure that sound management advice can be provided for these two species.

DFO, under the terms of reference for both studies, and with the co-operation of the Inuvialuit, has access to the data they generate.

Recreational Fisheries

The recreational fishery sector primarily consists of a resident sport fishery (approximately 1 100 licence holders) and, secondarily, of the tourism lodge-based fishery (4 lodges).

There was no recreational fishery monitoring in 1988/89.

SOUTH/CENTRAL ARCTIC AREA

Commercial Fisheries

The South/Central Arctic Area has the largest and most organized commercial fisheries in the N.W.T. The Great Slave Lake fishery alone accounts for about 80% of the total commercial fishery production in the N.W.T.

Much of the commercial production in the South/Central Arctic Area is marketed through the Freshwater Fish Marketing Corporation (FFMC), which is the sole buyer and seller of N.W.T. freshwater fish production destined for intra-provincial and export trade. The quotas on Great Slave Lake, and other inland fisheries delivering to the FFMC, are monitored by maintaining a running total of the FFMC's daily catch records. Section 3 presents both the production data used by the area office in Hay River for quota management (Table 3A.5) and the data reported by the FFMC (Table 3A.6). The differences between the data reported in these two tables are mainly due to the exclusion of culls and local sales from the FFMC data reports.

Harvest data for N.W.T. commercial fisheries are typically reported for the fiscal year period 01 April to 31 March of the following year. Great Slave and Kakisa Lakes however, are opened on November 1st and remain open until the quota is reached or October 31st of the following year. This is done on the request of the fishermen to ensure that there will be quota available for a winter fishery. The summary tables in this report include the harvests and landed values from Great Slave and Kakisa Lakes for the fiscal year, while the detailed tables report on the quota year harvests and landed values for these lakes.

Fishermen making deliveries directly to the FFMC are paid an initial price on delivery and a final payment, which is dependant on the FFMC's profits, after the end of the fiscal year. As this report series will, in future years, be published on a timely basis and in advance of final payments, such payments are excluded from this report. Appendix 1 shows the amount of final payments, by species, for the past five years.

Much of the Arctic charr harvested in the South/Central Arctic Area is delivered to the fish plant operated by the Ikaluktutiak Co-operative in Cambridge Bay. The Co-op also coordinates the fishing and pays most of the fishing expenses. It provides a "grub stake" to the fishermen at the beginning of each fishing season and pays an initial per kilogram price for their catch on delivery. Some of the commercial harvest is sold locally, but most is shipped, at the expense of the Co-op, to the FFMC in Winnipeg. The Co-op makes a second payment to the fishermen, usually in December, based on the final payment from the FFMC for the previous year's production. A third payment, based on the surplus from the fishery after operating and marketing expenses, is made in April or May. Landed value is calculated from the sum of all three payments made to fishermen. In 1988/89 the initial payment was $1.46/kg (round weight equivalent), the second was $2.47/kg and the third was $2.56/kg.

The remaining charr fisheries in the South/Central Arctic Area are of a much smaller scale and sales are made either between communities or locally. Sales slips from co-operatives or Hunters and Trappers' Associations provide data on the harvest and landed values.

Marine Mammal Harvests

Marine mammal harvests occur only in the high arctic region of the South/ Central Arctic Area, and are limited almost entirely to beluga. Data on this harvest have been made available from the Kitikmeot Harvest Study, through the co-operation of the Kitikmeot Hunters and Trappers' Association and the Department of Renewable Resources, Government of the Northwest Territories. The study uses basically the same methods as the Inuvialuit Harvest Study.

Recreational Fisheries

There is a significant recreational fishery on waterbodies close to the major population centres of Yellowknife and Hay River. The lodge-access recreational fishery is also important, with 33 lodges offering access to remote waterbodies. Eighty percent (80%) of all resident sports fishing licenses and 70% of all non-resident licence sales are sold in the South/Central Arctic area.

Only the lodge-access fishery was monitored in 1988/89 and that monitoring was limited to the angler diary program on Great Bear Lake and Blachford Lake. The program, conducted in cooperation with fishing lodges, is a voluntary reporting system in which guests record their fishing effort and catches in diaries. The lodge staff forward completed diaries to DFO for analysis and reporting.

EASTERN ARCTIC AREA

Commercial Fisheries

The Eastern Arctic Area primarily consists of small-scale arctic charr commercial fisheries. In recent years there has also been inshore marine exploratory fishing off the coast of Baffin Island, the species of interest being turbot, cod, scallops and shrimp. The most active of these developmental fisheries has been the Pangnirtung turbot fishery. Baffin Island Inuit also participate in the offshore fishery for northern shrimp, but the monitoring of this large-scale fishery is done by DFO's Atlantic Fisheries Service under the Northern Shrimp Management Plan.

Most of the Keewatin (West Hudson Bay) charr fisheries deliver to fish plants in Whale Cove, Chesterfield Inlet, Arviat and Rankin Inlet. With the exception of the plant in Arviat, which is an independently operated business, these plants are operated by the Hunters and Trappers' or Fishermen's Associations. The plants buy fish from fishermen, wash, freeze and pack, and then ship their production to the FFMC. Reliable harvest information can be obtained from the FFMC sales slips.

The price the fishermen receive is set by the plant and is based on the FFMC's initial price, less their anticipated expenses. The total payments made by the plants to fishermen are the landed values shown in Table 4A.4. The fishermen rarely receive a final payment because the FFMC's final payment is used to pay the plants' outstanding operating expenses.

The harvest from the remaining Keewatin charr fisheries and from the Baffin Island charr fisheries are sold within the N.W.T. The harvest data for these fisheries is collected by DFO Fisheries Officers and Government of the Northwest Territories Renewable Resource Officers from sales tickets and is considered to be fairly accurate. However, in some areas there are no DFO or Renewable Resources staff, and fisheries can be opened under a variation notice, but not monitored. During 1988/89 there were four commercial fisheries opened in this area for which the harvest is unknown.

Marine Mammals

N.W.T. marine mammal harvesting is concentrated in the Eastern Arctic Area, with virtually all of the narwhal and walrus harvest and over 70% of the beluga harvest.

Accurate data on the narwhal harvest are provided by monitoring tag returns. The walrus and beluga harvests are monitored in co-operation with Renewable Resources by observations of community hunts. As this method depends on a Renewable Resource Officer or a Fishery Officer being present when hunting occurs, much of the harvest data is incomplete or missing.

For the short term, pending land claims, this problem should be alleviated in the Keewatin Region since agreement is being negotiated with the Keewatin Wildlife Federation and the Government of the Northwest Territories to provide DFO access to data collected through the Keewatin Harvest Study. Unfortunately, the Baffin Region Harvest Study data are not available to DFO and as a result, marine mammal harvest data for Baffin communities will remain unreliable.

Recreational Fisheries

Resident recreational fishing is of importance (1 619 licences sold), but the fishing lodge industry in the Eastern Arctic is limited to 16 lodges.

No monitoring studies were conducted on any recreational fisheries in the Eastern Arctic during 1988/89.

GLOSSARY OF TERMS

Commercial Fisheries

Commercial fishing is fishing for sale or barter. Schedule V of the N.W.T. Fisheries Regulations specify the waters in which commercial fishing can take place. These waters are closed to commercial fishing unless opened by a variation notice made by the Regional Director General, Central and Arctic Region.

Data Source

The data contained in this report come from a variety of sources. In the detailed tables showing the harvest from specific commercial or exploratory fisheries the data source is indicated by one of the following codes:

DCR = Freshwater Fish Marketing Corporation's daily catch records. These record daily totals of the purchases made by agents of the Corporation in terms of the species, weight and price paid.

EFL = Data provided to fulfill the conditions of an exploratory fishing licence.

FJM = Fisheries Joint Management Committee's Harvest Study data for the Inuvailuit Settlement Area.

FO = Fisheries Officers observations or estimations.
FSV = Mail out survey of fishermen (Western Arctic)

HST = Government of the N.W.T.'s harvest study data.

LTA = For many communities, there are years during which there is no monitoring of the marine mammal harvests. In these years the long term average, as calculated by Strong (1989), of harvest levels is presented to indicate the historical level of harvest in that community. The number of years used in these calculations varies, depending on the number of years harvest reports were available for each community and species.

RRO = Verbal reports from Renewable Resource officers, based on their observations and estimations.

STR = Sales slips or trade records collected by either DFO staff or Renewable Resource officers.

TAG = The harvest of narwhal is under quota and monitored by a tag system. Each community is given a limited number of tags and this represents the maximum number of narwhal that can be harvested. Each time a narwhal is harvested a portion of the tag is returned to DFO, providing an accurate count of the harvest.

Data Quality

With the exception of those areas where the long term average is used (see LTA above) because of lack of monitoring, a data quality measure is given in terms of the "maximum estimated error." These are estimated by the area biologists, based on their knowledge of the fishery, and are a measure of the maximum error that could possibly be associated with the data. For example, a data quality measure of +/-50% would indicate that a reported harvest of 1000 kilograms could, in the worst cases, be either 500 or 1500 kilograms.

Where the data source is listed as "LTA" the range of harvest values is presented for the years from which the LTA has been calculated.

Exploratory Fisheries

To commercially fish a waterbody that is not listed on Schedule V of the N.W.T. Fisheries Regulations, a fisherman or fishing company must apply to DFO for an exploratory fishing licence. This licence identifies the quota for each species, the gear that can be used, the number of fish DFO requires for biological samples and the information the proponent must provide on fishing effort. If an exploratory fishery is shown to have stocks sufficient to support a commercial fishery, after three to five years of fishing, it may be added to Schedule V of the N.W.T. Fisheries Regulations.

Harvest

The numbers shown as harvest reflect an estimate of the total weight of fish or total number of marine mammals harvested. Fish harvests are reported in the live or round weight equivalent. Because fishermen can actually sell fish in a variety of forms (round, gutted and gutted with head off), conversion factors are used to determine the live weight equivalent.

In the Western Arctic, where harvests are reported by fishermen as numbers of fish, the round equivalent weights are estimated by multiplying by an estimate of the average weight of each species.

Marine mammal harvests are reported by community and are based on the best data available on the number of animals landed. Currently, no corrections are made for animals lost. If there are no data available, the long term average, as calculated by Strong (1989), for the community is reported to provide some indication on what level of harvesting activity may have occurred.

Landed Value

The landed value represents the payments received by commercial fishermen for sales of their fish. For those fishermen selling their harvest to the FFMC, these values do not include final payments (see Appendix 1). For the less organized markets in the Eastern and Western Arctic areas, landed values are estimated by multiplying the harvest weight by the estimated average prices received.

rd kgs

This is an abbreviation for round weight equivalent kilograms.

Sports Fishing Licence

The Fisheries Act and its regulations stipulate that people between 16 and 65 years of age wishing to sport fish in the N.W.T. must purchase a sport fishing licence.

Resident

With respect to sports fishing licences, a resident refers to both Northwest Territorial residents and residents of the rest of Canada.

Non-resident

With respect to sports fishing licences, a non-resident refers to non-Canadian residents.

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SECTION 1
NORTHWEST TERRITORIES SUMMARY

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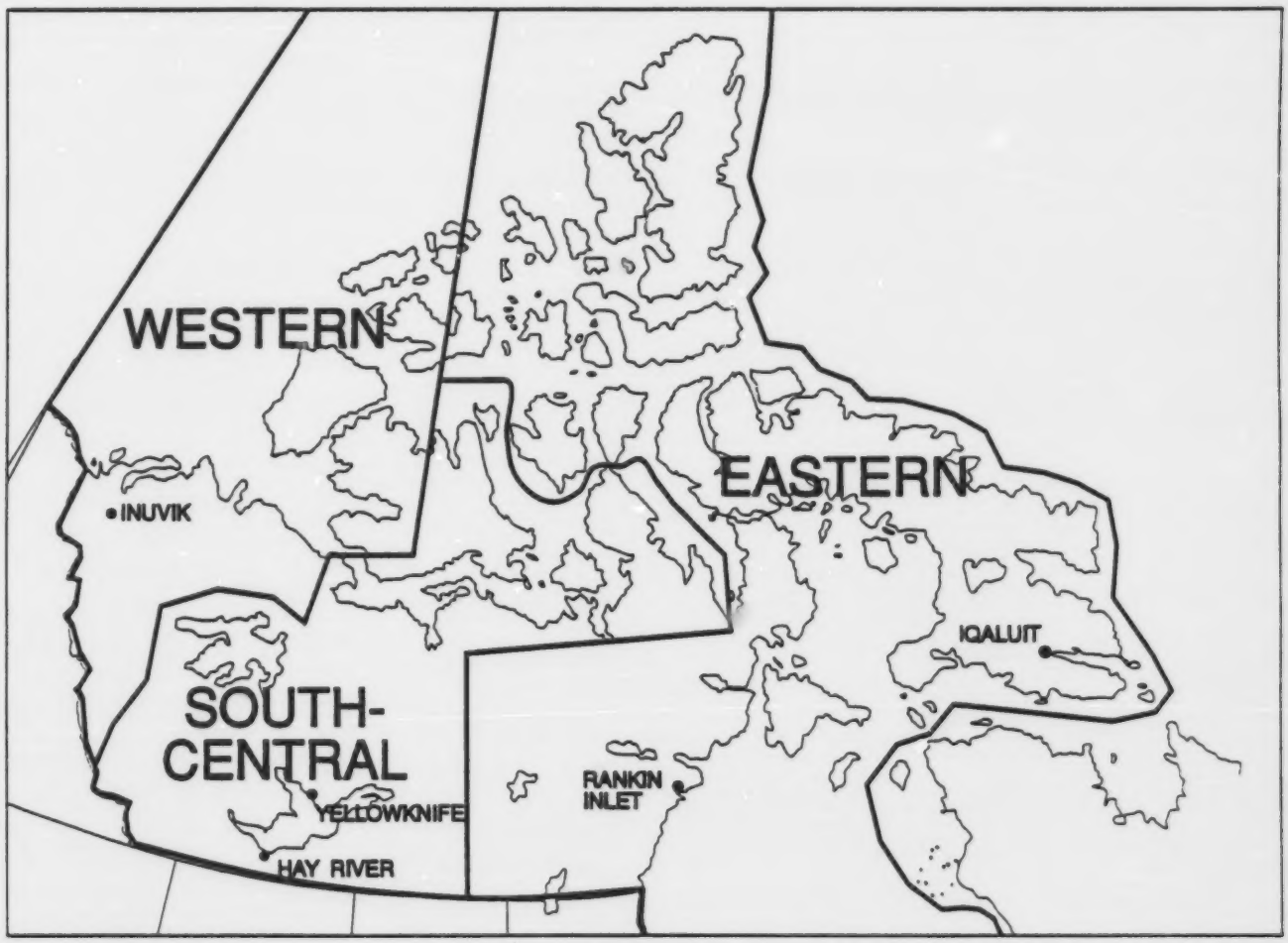
Northwest Territories
Department of Fisheries and Oceans
Administrative Areas



NORTHWEST TERRITORIES
1988/89 STATISTICAL HIGHLIGHTS

Commercial and Exploratory Fisheries

- 105 waterbodies opened for commercial fishing under Schedule V of the N.W.T. Fisheries Regulations, of which 68 were fished;
- 835 commercial fishing licences sold;
- 72 waterbodies opened for exploratory fisheries, of which 28 were fished;
- Total reported commercial and exploratory fishery landings of 1 930 238 kg and landed value of $ 2 520 321;
- Principal commercial and exploratory species harvested were lake whitefish (65% of landings), turbot (9%), arctic charr (9%), and northern pike (7%);
- Great Slave Lake accounted for 79% of the NWT commercial harvest.

Recreational Fisheries

- 16 716 recreational fishing licences sold, including 13 353 resident and 3 363 non-resident licences;
- 53 lodges with a total bed capacity of 969;
- 9 771 gamefish harvested by Great Bear Lake lodge-access fishery, of which 72% were lake trout.

Marine Mammal Harvest

- Marine mammal harvest of 581 beluga, 271 narwhal and 389 walrus.

A. COMMERCIAL AND EXPLORATORY FISHERIES

Table 1A.1 Northwest Territories, Schedule V Commercial Fisheries, Harvests and Landed Values, by Area, 1988/89

Area	Number of Schedule V Fisheries Opened	Fished	Harvest (rd kgs)	Landed Value[a] ($)
Western Arctic	8	8	9 069	21 023
South/Central Arctic	33	22	1 612 763	1 847 893
Eastern Arctic	64	38	90 180	270 546
Total	105	68	1 712 012	2 139 462

[a] does not include final payments for harvest delivered to the FFMC, see Appendix 1.

Table 1A.2 Northwest Territories, Schedule V Commercial Fisheries, Harvests and Landed Values, by Species, 1988/89

Species	Harvest (rd kgs)	Landed Value[a] ($)
Arctic charr	154 660	665 200
Lake whitefish	1 261 509	1 136 559
Broad whitefish	5 759	12 520
Lake trout	65 923	85 594
Walleye	38 101	79 166
Northern pike	127 648	78 659
Inconnu	57 351	80 805
Other	1 061	959
Total	1 712 012	2 139 462

[a] does not include final payments for harvest delivered to the FFMC, see Appendix 1.

Table 1A.3 Northwest Territories, Exploratory Fisheries, Harvests and Landed Values, by Area, 1988/89

Area	Number of Exploratory Licenses	Number of Waterbodies Licenced	Number of Waterbodies Fished	Harvest (rd kgs)	Landed Value ($)
Western Arctic	2	5	1	1 887	10 397
South/Central Arctic	12[a]	34	8	6 592	18 621
Eastern Arctic	16	33	19	209 747	351 841
Total	30	72	28	218 226	380 859

[a] includes an exploratory licence issued for a gear change on the Jayco River (Schedule V No. IV-14), but not the harvest associated with this licence.

Table 1A.4 Northwest Territories, Exploratory Fisheries, Harvests and Landed Values, by Species, 1988/89

Species	Harvest (rd kgs)	Landed Value ($)
Arctic charr	19 307	62 241
Whitefish	555	1 100
Lake trout	623	2 128
Cisco	541	1 190
Scallops	17 200	17 200
Turbot	180 000	297 000
Total	218 226	380 859

Table 1A.5 Northwest Territories, Schedule V Commercial Fisheries and Exploratory Fisheries, Total Harvests and Landed Values, 1988/89.

Area	Harvest (rd kgs)	Landed Value[a] ($)
Western Arctic	10 956	31 420
South/Central Arctic	1 619 355	1 866 514
Eastern Arctic	299 927	622 387
Total	1 930 238	2 520 321

[a] does not include final payment for harvest delivered to the FFMC, see Appendix 1.

Table 1A.6 Northwest Territories, Commercial Fishing Licence Sales, by Area, 1988/89

Area	Number of Licences Sold
Western Arctic	40
South/Central Arctic	216
Eastern Arctic	579
Total	835

B. MARINE MAMMAL HARVESTS

Table 1B.1 Northwest Territories, Marine Mammal Harvests, by Species and Area, 1988/89

Area	Beluga	Narwhal	Walrus
Western Arctic	116	0	3
South/Central Arctic	46	3	0
Eastern Arctic	419	268	386
Total	581	271	389

C. RECREATIONAL FISHERIES

Table 1C.1 Northwest Territories, Resident and Non-resident Sports Fishing Licence Sales and Revenues, 1988/89

Category	Number of Licences Sold	Revenues
Resident	13 353	$66 765
Non-resident	3 363	$50 445
Total	16 716	$117 210

Table 1C.2 Northwest Territories, Resident and Non-resident Sports Fishing Licence Sales Trend

Year	Resident	Non-resident	Total
1979/80	9 175	4 011	13 186
1980/81	10 656	4 468	15 124
1981/82	11 484	3 962	15 446
1982/83	11 402	3 289	14 691
1983/84	10 842	3 421	14 263
1984/85	12 656	3 363	16 019
1985/86	13 821	3 626	17 447
1986/87	11 909	3 284	15 193
1987/88	13 502	3 802	17 304
1988/89	13 353	3 363	16 716

Table 1C.3 Northwest Territories, Resident and Non-resident Sports Fishing Licence Sales and Revenues, by Area[a], 1988/89.

Area	Resident		Non-resident		Total	
	Number Sold	Revenues	Number Sold	Revenues	Number Sold	Revenues
Western Arctic	1 107	$ 5 535	238	$ 3 570	1 345	$ 9 105
South/Central Arctic	10 627	$ 53 135	2 402	$ 36 030	13 029	$ 89 165
Eastern Arctic	1 619	$ 8 095	723	$ 10 845	2 342	$ 18 940
Total	13 353	$ 66 765	3 363	$ 50 445	16 716	$117 210

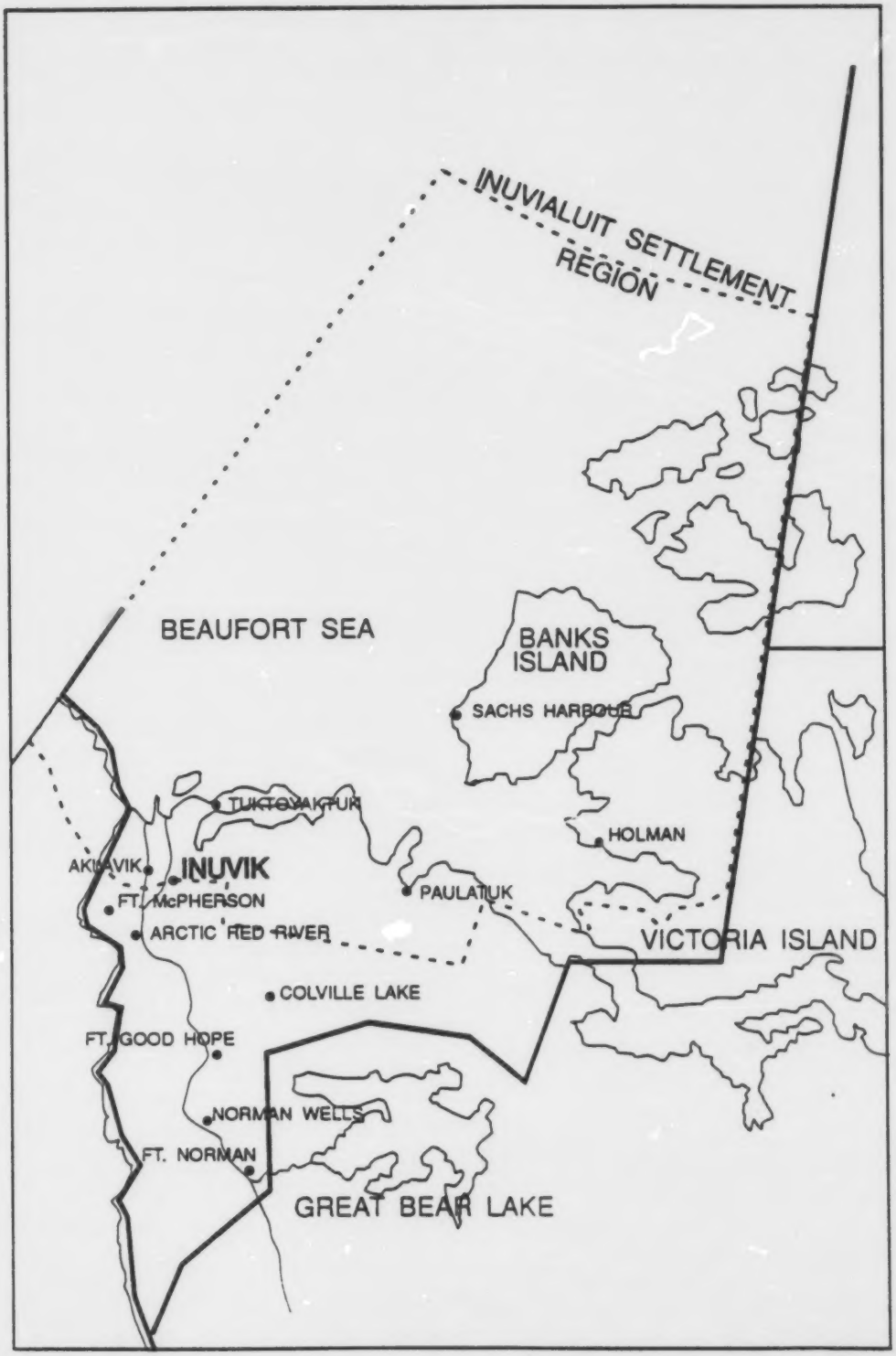
[a] Sales and revenues for each area are approximate because the GNWT Department of Renewable Resources, which is responsible for the sale of sports fishing licences, has administrative areas that do not correspond exactly with the DFO administrative areas.

Table 1C.4 Northwest Territories, Number of Licensed Fishing Lodges and Total Bed Capacity, by Area, 1988/89

Area	Lodges	Total Bed Capacity
Western Arctic	4	67
South/Central Arctic	33	652
Eastern Arctic	16	250
Total	53	969

SECTION 2
WESTERN ARCTIC AREA

Figure 2
WESTERN ARCTIC AREA



WESTERN ARCTIC AREA
1988/89 STATISTICAL HIGHLIGHTS

Commercial and Exploratory Fisheries

- 8 waterbodies opened for commercial fishing under Schedule V of the N.W.T. Fisheries Regulations, all of which were fished;
- 40 commercial fishing licences sold in 5 Western Arctic communities;
- 70% of commercial licence holders reported landings to DFO;
- 90% of the reported commercial landings of 91 618 kg was retained by fishermen for their own use;
- 5 waterbodies licensed for exploratory fisheries, 1 waterbody fished;
- Total reported commercial (sales) and exploratory fishery landings of 10 956 kg and landed value of $ 31 420;
- Principal commercial species reported sold were broad whitefish (64% of sales) and inconnu (16%);

Recreational Fisheries

- 1 345 recreational fishing licences sold, including 1 107 resident and 238 non-resident licences;
- 4 lodges with a total bed capacity of 67 beds.

Marine Mammal Harvest

- Marine mammal landed harvest of 116 beluga and 3 walrus.

A. COMMERCIAL AND EXPLORATORY FISHERIES

Table 2A.1 Western Arctic Area, Schedule V Commercial Fisheries, Total Harvest, Amount Sold and Sales Value, by Species, 1988/89

Species	Total Harvest[a] (rd kgs)	Amount Sold[a] (rd kgs)	Sales Value[b] ($)
Arctic charr	1 547	182	950
Lake whitefish	17 027	292	293
Broad whitefish	31 068	5 759	12 520
Lake trout	520	480	3 000
Northern pike	6 925	0	0
Inconnu	16 088	1 436	3 340
Cisco	1 405	320	320
Burbot	16 473	600	600
Others	565	0	0
Total	91 618	9 069	21 023

[a] Summary of information provided in a survey in which 70% of all commercial fishermen responded.
[b] Sales values estimated by multiplying the number of fish sold by the estimated average price.

Table 2A.2 Western Arctic Area, Exploratory Fisheries, Harvests and Landed Values, by Species, 1988/89

Species	Harvest (rd kgs)	Landed Value ($)
Arctic charr	1 887	10 397
Total	1 887	10 397

Table 2A.3 Western Arctic Area
Active Schedule V Commercial Fisheries
1988/89

Waterbody Name	Schedule V Number	Location	Open Season	Species	Quota (rd kgs)
Mackenzie Delta (Area I)	I-12	68-00N 135-00W	01Jun88 to 31Mar89	Whitefish[a]	2 300
				Lake trout	2 300
				Cisco	2 300
				Burbot)	
				Northern pike)	4 600
Mackenzie Delta (Area II)	I-13	68-15N 125-20W	01Jun88 to 31Mar89	Whitefish[a]	9 100
				Cisco	2 300
				Lake trout	2 300
				Burbot)	
				Northern pike)	4 600
Mackenzie Delta (Area III)	I-14	68-20N 135-00W	01Jun88 to 31Mar89	Whitefish[a]	45 500
				Cisco	2 300
				Lake trout	2 300
				Burbot)	
				Northern pike)	4 600
Mackenzie Delta (Area IV)	I-15	69-20N 135-00W	01Jun88 to 31Mar89	Lake trout	2 300
				Inconnu	4 600
				Whitefish[a]	4 600
Mackenzie Delta (Area V)	I-16	63-30N 132-45W	01Jun88 to 31Mar89	Whitefish[a]	4 600
				Herring	500
				Cisco	500
Peel River	I-21	67-37N 134-52W	01Jun88 to 31Mar89	Whitefish[a]	2 300
Sitidgi Lake	I-25	68-30N 132-40W	01Jun88 to 31Mar89	Whitefish[a]	300
Lennie Lake	III-10	65-45N 126-18W	01Jun88 to 31Mar89	Whitefish[a]	2 800

[a] Combined lake whitefish and broad whitefish quota

Table 2A.4 Western Arctic Area, Harvests, Sales and Sales Values of Surveyed Commercial Licence Holders[a], by Community, 1988/89

Community	Waters Fished	Species	Number of Fish	Harvest Weight[b] (rd kgs)	Sales[b] (rd kgs)	Sales Value[c] ($)
Aklavik	Mackenzie Delta (Areas I & II)	Broad whitefish	4 654	10 704	782	1 700
		Lake whitefish	2 798	3 637	0	0
		Arctic charr	742	965	52	200
		Inconnu	1 052	4 734	788	1 750
		Northern pike	1 810	4 163	0	0
		Burbot	2 512	7 536	600	600
		Mullet (Suckers)	79	79	0	0
		Cisco	750	300	0	0
Arctic Red River	Mackenzie Delta (Area V)	Broad whitefish	1 700	2 551	1 265	2 750
		Lake whitefish	2 500	3 250	0	0
		Inconnu	1 400	6 300	225	500
		Northern pike	50	115	0	0
		Burbot	1 100	3 300	0	0
		Mullet (Suckers)	250	250	0	0
Fort McPherson	Mackenzie Delta (Area I) Peel River	Broad whitefish	1 109	2 551	1 757	3 820
		Lake whitefish	305	397	85	85
		Arctic charr	448	582	150	750
		Inconnu	342	1 539	378	840
		Northern pike	136	313	0	0
		Burbot	89	267	0	0
		Mullet (Suckers)	108	108	0	0
		Cisco	63	25	0	0
Inuvik	Mackenzie Delta (Areas II & III) Sitidgi Lake	Broad whitefish	5 375	12 363	1 955	4 250
		Lake whitefish	7 495	9 744	208	208
		Chum Salmon	6	18	0	0
		Inconnu	765	3 443	45	250
		Northern pike	1 015	2 335	0	0
		Burbot	1 790	5 370	0	0
		Mullet (Suckers)	110	110	0	0
		Cisco	900	360	0	0
		Lake trout	130	520	480	3 000
Tuktoy-aktuk	Mackenzie Delta (Area IV)	Broad whitefish	670	1 541	0	0
		Inconnu	16	72	0	0
		Cisco/Herring	1 800	720	320	320

[a] summary of information provided in a survey in which 70% of all commercial fishery licence holders responded.

[b] catches were reported as numbers of fish, so the weight of the harvest and sales are estimated by multiplying by the estimated average weight of each species.

[c] sales values estimated by multiplying the number of fish sold by a rough estimate of the average price.

TABLE 2A.5

WESTERN ARCTIC AREA
EXPLORATORY FISHERIES
1988/89

Licence Number, Waterbody Name and Location	Species	Gear or Mesh Size	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
TF-88/89-08									
Kagluk River (Prince Albert Sound) 70-13N 112-58W	Arctic Charr (anadromous)	Upstream Trap	2 000	1 887	$10 397	DFO	+/- 0%	82 samples	P. Lemieux
TF-88/89-17									
Aubry Lake 67-20N 126-25W	Whitefish Lake Trout	140mm	1 000	NOT FISHED					
Carcajou Lake 67-16N 128-40W	Whitefish Lake Trout	140mm	1 000	NOT FISHED					
Colville Lake 67-10N 126-00W	Whitefish Lake Trout	140mm	1 000	NOT FISHED					
Lac du Bois 66-46N 125-11W	Whitefish Lake Trout	140mm	1 000	NOT FISHED					

Table 2A.6 Western Arctic Area,
Commercial Fishing Licence Sales, by Community
1988/89

Community	Number of Licences Sold		
	Resident	Non-resident	Total
Aklavik	10	0	10
Arctic Red River	7	0	7
Fort Good Hope	0	0	0
Fort McPherson	3	2	5
Fort Norman	0	0	0
Holman	0	0	0
Inuvik	16	0	16
Norman Wells	0	0	0
Paulatuk	0	0	0
Sachs Harbour	0	0	0
Tuktoyaktuk	2	0	2
Total	38	2	40

B. MARINE MAMMAL HARVESTS

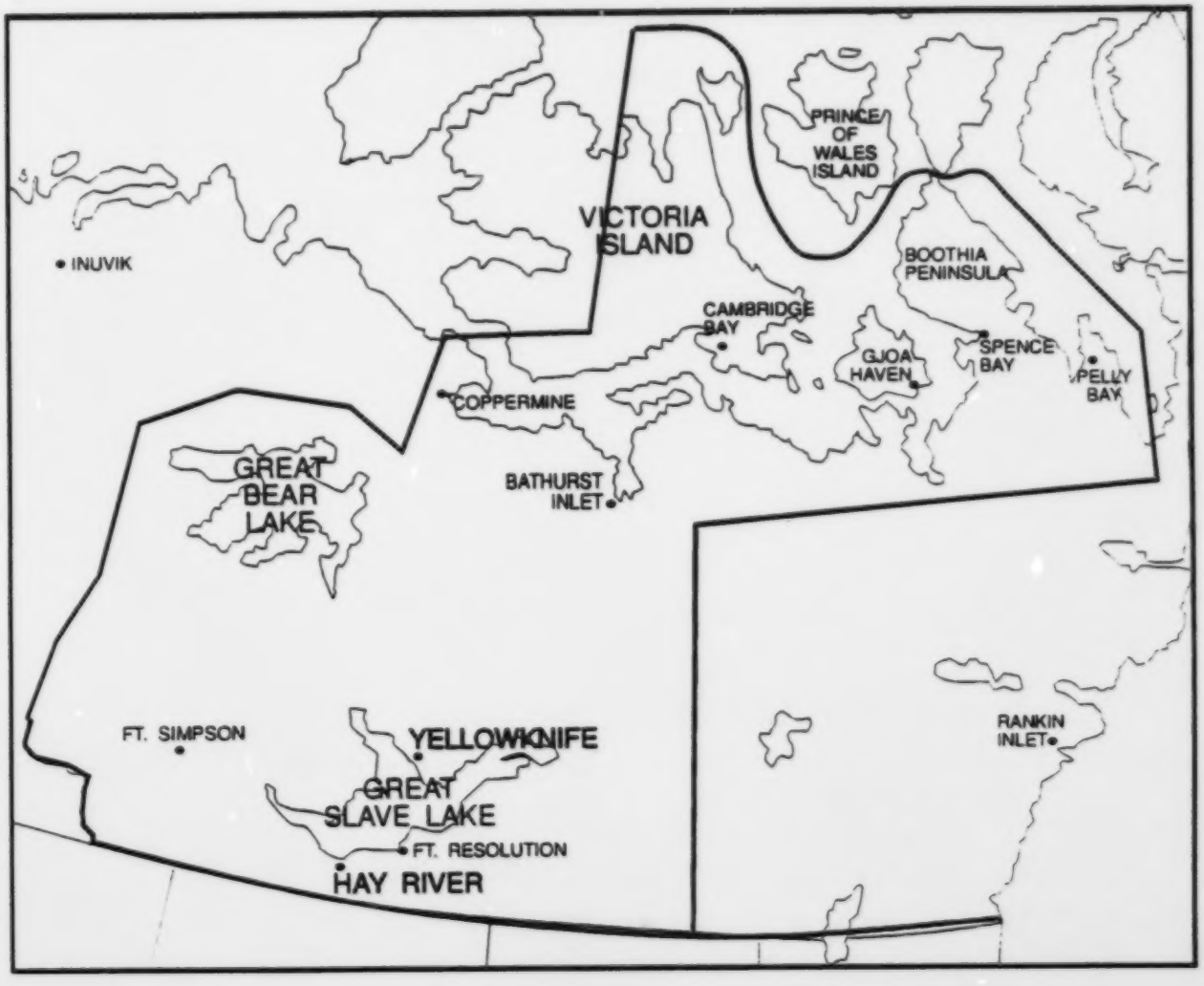
Table 28.1 Western Arctic Area, Marine Mammal Harvests[a], by Species and Community, 1988/89

Community	Species	Number Landed	Data Source	Data Quality
Aklavik	Beluga	18	FJM	+/- 5%
	Walrus	0	FJM	n/a
Holman Island	Beluga	0	FJM	n/a
	Walrus	0	FJM	n/a
Inuvik	Beluga	53	FJM	+/- 5%
	Walrus	0	FJM	n/a
Paulatuk	Beluga	0	FJM	n/a
	Walrus	0	FJM	n/a
Sach's Harbour	Beluga	0	FJM	n/a
	Walrus	3	FJM	+/- 5%
Tuktoyaktuk	Beluga	45	FJM	+/- 5%
	Walrus	0	FJM	n/a
Western Arctic Totals	Beluga	116		
	Walrus	3		

[a] Quantities are landed harvest with no corrections for animals lost.
n/a = not applicable

SECTION 3
SOUTH/CENTRAL ARCTIC AREA

Figure 3
SOUTH/CENTRAL ARCTIC AREA



SOUTH/CENTRAL ARCTIC AREA
1988/89 STATISTICAL HIGHLIGHTS

Commercial and Exploratory Fisheries

- 33 waterbodies opened for commercial fishing under Schedule V of the N.W.T. Fisheries Regulations, of which 22 were fished;
- 216 commercial fishing licences sold in 8 South/Central Arctic communities;
- 34 waterbodies licensed for exploratory fisheries, of which 8 were fished;
- Total reported commercial and exploratory fishery landings of 1 619 355 kg and landed value of $ 1 866 514;
- Principal commercial species harvested were lake whitefish (78% of landings), northern pike (8%), lake trout (4%), and arctic charr (4%);
- Great Slave Lake accounted for 95% of the Area's commercial fishery landings.

Recreational Fisheries

- 13 029 recreational fishing licences sold, including 10 627 resident and 2 402 non-resident licences;
- 33 lodges with a total bed capacity of 652;
- 9 771 gamefish harvested by Great Bear Lake lodge-access fishery, of which 72% were lake trout.

Marine Mammal Harvest

- Marine mammal landed harvest of 46 beluga and 3 narwhal.

A. COMMERCIAL AND EXPLORATORY FISHERIES

Table 3A.1 South/Central Arctic Area, Schedule V Commercial Fisheries, Harvests and Landed Values, by Species, 1988/89

Species	Harvest (rd kgs)	Landed Value[a] ($)
Arctic charr	64 298	393 704
Lake whitefish	1 261 217	1 136 266
Lake trout	65 443	82 594
Walleye	38 101	79 166
Northern pike	127 648	78 659
Inconnu	55 915	77 465
Mullet (Suckers)	141	39
Total	1 612 763	1 847 893

[a] does not include final payments for harvest delivered to the FFMC, see Appendix 1.

Table 3A.2 South/Central Arctic Area, Exploratory Fisheries, Harvests and Landed Values, by Species, 1988/89

Species	Harvest (rd kgs)	Landed Value ($)
Arctic charr	4 873	14 203
Lake whitefish	555	1 100
Lake trout	623	2 128
Arctic cisco	541	1 190
Total	6 592	18 621

TABLE 3A.3

SOUTH/CENTRAL ARCTIC AREA
ARCTIC CHARR SCHEDLUE V COMMERCIAL FISHERIES
1988/89

Community and Waterbody Information	Species	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
CAMBRIDGE BAY								
EKALLUK RIVER Sched. V No. : IV-9 Location : 69-25N, 106-17W Open Season : 01Aug88-30Sep88	Arctic Charr (anadromous)	14 500	14 834	$96 569	STR	+/- 0%	210 samples Carder and Stewart (1989)	G. Low
ELLICE RIVER Sched. V No. : IV-10 Location : 68-02N, 104-00W Open Season : 01Aug88-30Sep88	Arctic Charr (anadromous)	6 000	6 544	$42 601	STR	+/- 0%	210 samples Carder and Stewart (1989)	G. Low
HALOVIK RIVER (THIRTY MILE RIVER) Sched. V No. : IV-13 Location : 69-10N, 107-04W Open Season : 01Jul88-30Sep88	Arctic Charr (anadromous)	6 800	6 808	$44 320	STR	+/- 0%	163 samples Carder and Stewart (1989)	G. Low
JAYCO RIVER Sched. V No. : IV-14 Location : 69-43N, 103-81W Open Season : 01Aug88-30Sep88	Arctic Charr (anadromous)	13 600	11 820	$76 948	STR	+/- 0%	210 samples Carder and Stewart (1989)	G. Low
KULGAYUK RIVER (DEASE POINT) Sched. V No. : IV-20 Location : 68-16N, 105-03W Open Season : 15Aug88-30Sep88	Arctic Charr (anadromous)	1 500	NOT FISHED					
LAUCHLAN RIVER (BYRON BAY) Sched. V No. : IV-22 Location : 68-56N, 108-30W Open Season : 01Jul88-30Sep88	Arctic Charr (anadromous)	9 100	9 425	$61 357	STR	+/- 0%	210 samples Carder and Stewart (1989)	G. Low
PALIRYUAK RIVER (SURREY RIVER) Sched. V No. : IV-27 Location : 69-27N, 106-40W Open Season : 01Jul88-30Sep88	Arctic Charr (anadromous)	9 100	8 570	$55 791	STR	+/- 0%	210 samples Carder and Stewart (1989)	G. Low
PERRY RIVER Sched. V No. : IV-29 Location : 76-43N, 102-10W Open Season : 01Jul88-30Sep88	Arctic Charr (anadromous)	4 500	NOT FISHED					

TABLE 3A.3 (continued)

SOUTH/CENTRAL ARCTIC AREA
ARCTIC CHARR SCHEDULE V COMMERCIAL FISHERIES
1988/89

Community and Waterbody Information	Species	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
COPPERMINE								
COPPERMINE RIVER Sched. V No. : IV-06 Location : 67-49N, 115-04W Open Season : 01Jul88-30Sep88	Arctic Charr (anadromous)	600	600	$2 310	STR	+/- 0%		
GJOA HAVEN								
SIMPSON RIVER Sched. V No. : IV-32 Location : 67-48N, 100-45W Open Season : 01Aug88-30Sep88	Arctic Charr (anadromous)	4 500	NOT FISHED					
PELLY BAY								
ARROWSMITH RIVER Sched. V No. : IV-2 Location : 68-23N, 90-17W Open Season : 01Oct88-31Mar89	Arctic Charr (anadromous)	1 000	324	$713	STR	+/- 0%		
BECHER RIVER Sched. V No. : IV-3 Location : 68-45N, 90-08W Open Season : 01Oct88-31Mar89	Arctic Charr (anadromous)	1 000	998	$2 185	STR	+/- 0%		
KEITH BAY (COMMITTEE BAY) Sched. V No. : IV-17 Location : 68-15N, 88-18W Open Season : 01Oct88-31Mar89	Arctic Charr (anadromous)	4 500	1 038	$2 284	STR	+/- 0%		
KELLETT RIVER Sched. V No. : IV-18 Location : 68-21N, 90-07W Open Season : 01Oct88-31Mar89	Arctic Charr (anadromous)	1 000	998	$1 996	STR	+/- 0%		

TABLE 3A.3 (continued)

SOUTH/CENTRAL ARCTIC AREA
ARCTIC CHARR SCHEDULE V COMMERCIAL FISHERIES
1988/89

Community and Waterbody Information	Species	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
SPENCE BAY								
AGNEW RIVER (ILAUNNALLIC BAY) Sched. V No. : IV-1 Location : 70-40N, 92-40W Open Season : 01Apr88-31Mar89	Arctic Charr (anadromous)	4 500	NOT FISHED					
LORD LINDSAY LAKE Sched. V No. : IV-23 Location : 70-10N, 92-25W Open Season : 15Sep88-31Jan89	Arctic Charr (anadromous)	2 500	2 325	$6 599	STR	+/- 0%		
MURCHISON RIVER Sched. V No. : IV-25 Location : 68-35N 93-30W Open Season : 01Aug88-30Nov88	Arctic Charr (anadromous)	9 100	NOT FISHED					

TABLE 3A.4

SOUTH/CENTRAL ARCTIC AREA
WHITEFISH, LAKE TROUT AND WALLEYE SCHEDULE V COMMERCIAL FISHERIES, 1988/89
(excluding Great Slave and Kakisa Lakes)

Waterbody Information	Species	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
MCEWAN LAKE	Whitefish		600	$1 320	RRO	+/- 10%		
Sched. V No. : II-31	Lake Trout	600	0	0				
Location : 60-48N, 119-57W	Walleye	-	30	$100				
Open Season : 01Dec88-31Mar89								
PIERS LAKE	Whitefish	4 200	NOT FISHED					
Sched. V No. : II-41								
Location : 60-20N, 111-06W								
Open Season : 01Nov88-31Mar89								
READ LAKE	Whitefish		300	$600	RRO	+/- 10%		
Sched. V No. : II-42	Lake Trout	300	0	0				
Location : 60-53N, 119-55W								
Open Season : 01Dec88-31Mar89								
ROSS LAKE	Whitefish		NOT FISHED					
Sched. V No. : III-47	Lake Trout	1 800						
Location : 62-41N, 113-16W								
Open Season : 01Jan89-31Mar89								
SELWYN LAKE	Whitefish		NOT FISHED					
Sched. V No. : III-50	Lake Trout	22 700						
Location : 60-05N 104-25W								
Open Season : 01Jun88-?10ct88								
SURREY LAKE	Whitefish		NOT FISHED					
Sched. V No. : IV-34	Lake Trout	9 100						
Location : 69-43N, 105-55W								
Open Season : 010ct88-30Nov88								

TABLE 3A.4 (continued)

SOUTH/CENTRAL ARCTIC AREA
WHITEFISH, LAKE TROUT AND WALLEYE SCHEDULE V COMMERCIAL FISHERIES, 1988/89
(excluding Great Slave and Kakisa Lakes)

Waterbody Information	Species	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
TATHLINA LAKE Sched. V No. : II-53 Location : 60-30N, 117-30W Open Season : 01Apr88-31Mar89	Walleye	30 900	NOT FISHED					
THISTLETHWAITE LAKE Sched. V No. : III-53 Location : 63-10N, 113-37W Open Season : 01Jun88-15Sep88	Whitefish) Lake Trout)	1 900	NOT FISHED					
TOASSIE LAKE Sched. V No. : IV-37 Location : 69-41N, 106-39N Open Season : 01Oct88-30Nov88	Whitefish) Lake Trout) Arctic Char	900 -	839 82 14	$1 846 $180 $31	STR	+/- 0%		

Table 3A.5 Great Slave Lake, Harvests by Administrative Areas
November 1, 1987 to October 31, 1988

Area	Species	Quota (rd kgs)	Winter (rd kgs)	Summer (rd kgs)	Total (rd kgs)
I-WEST	Lake whitefish	)227 300	232 645	0	232 645
	Lake trout		3 297	0	3 297
	Northern pike		35 487	0	35 487
	Inconnu		2 463	0	2 463
	Walleye		282	0	282
	TOTAL		274 174	0	274 174
I-EAST	Lake whitefish	)318 200	157 119	150 686	307 805
	Lake trout		3 432	3 719	7 151
	Northern pike		6 524	1 681	8 205
	Inconnu		7 053	16 743	23 796
	Walleye		176	638	814
	Burbot		113	0	113
	TOTAL		174 417	173 467	347 884
II	Lake whitefish	)318 200	160 119	158 273	318 392
	Lake trout		2 014	4 831	6 845
	Northern pike		8 423	2 279	10 702
	Inconnu		2 209	124	2 333
	Walleye		4	4	8
	TOTAL		172 769	165 511	338 280
III	Lake whitefish	) 45 500	14 569	15 770	30 339
	Lake trout		645	922	1 567
	Northern pike		719	328	1 047
	Inconnu		4 637	1 644	6 281
	Walleye		5	221	226
	TOTAL		20 575	18 885	39 460
IV	Lake whitefish	)409 100	150 014	262 843	412 857
	Lake trout		166	5 135	5 301
	Northern pike		2 437	23 121	25 558
	Inconnu		402	853	1 255
	Walleye		1 279	11 744	13 023
	Burbot		63	0	63
	TOTAL		154 361	303 696	458 057
V	Lake whitefish	)363 600	29 229	106 749	135 978
	Lake trout		13 012	28 082	41 094
	Northern pike		1 619	30 246	31 865
	Inconnu		2 294	5 940	8 234
	Walleye		901	5 018	5 919
	TOTAL		47 055	176 035	223 090

continued . . .

Table 3A.5 (continued) Great Slave Lake
Harvests by Administrative Areas
November 1, 1987 to October 31, 1988

Area	Species	Quota (rd kgs)	Winter (rd kgs)	Summer (rd kgs)	Total (rd kgs)
All Areas	Lake whitefish)	) 1 681 900	743 695	694 321	1 438 016
	Lake trout		22 566	42 689	65 255
	Northern pike		55 209	57 655	112 864
	Inconnu		19 058	25 304	44 362
	Walleye		2 647	17 625	20 272
	Burbot		176	0	176
	TOTAL		843 351	837 594	1 680 945

Note: all quotas for G.S.L. are for whitefish and trout combined.

Table 3A.6 Great Slave Lake Harvest Sold to the Freshwater Fish Marketing Corporation and Landed Values to Fishermen, November 1, 1987 to October 31, 1988

Species	Winter		Summer		Quota Year	
	Harvest Sold (rd kg)	Landed Value[a] ($)	Harvest Sold (rd kg)	Landed Value[a] ($)	Harvest Sold (rd kg)	Landed Value[a] ($)
Whitefish						
Export	732 479	879 601	657 055	377 900	1 389 534	1 257 501
Smoker	0	0	10 718	7 567	10 718	7 567
Lake Trout	21 652	36 895	43 497	44 215	65 149	81 110
Northern Pike	50 595	39 959	59 016	35 549	109 611	75 508
Inconnu	16 753	26 864	29 517	35 135	46 270	61 999
Walleye	1 318	3 784	18 112	34 506	19 430	38 290
Burbot	176	35	0	0	176	35
TOTAL	822 973	987 138	817 915	534 872	1 640 888	1 522 010

[a] does not include final payments, see Appendix 1.

Table 3A.7

Kakisa Lake
Commercial Harvests
November 1, 1987 to October 31, 1988

Species	Quota (rd kg)	Harvest (rd kg)
Walleye	20 000	18 958
Northern Pike	-	27
TOTAL		18 985

Table 3A.8

Kakisa Lake Harvests Sold to the
Freshwater Fish Marketing Corporation
and Landed Values to Fishermen,
November 1, 1987 to October 31, 1988

Species	Harvest Sold (rd kg)	Landed Value[a] ($)
Walleye	17 044	35 008
Northern pike	27	17
TOTAL	17 071	35 025

[a] does not include final payments, see Appendix 1.

TABLE 3A.9

SOUTH/CENTRAL ARCTIC AREA
EXPLORATORY FISHERIES
1988/89

Licence Number, Waterbody Name and Location	Species	Gear or Mesh Size	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
TF-88/89-01									
Spence Bay General area	Cod	jigging	200	NOT FISHED					
TF-88/89-02									
Unnamed River (Tagioknitak) 69-15N 102-05W	Arctic Charr (anadromous)	140mm	1 500	1 709	3 760	STR	+/- 0%	203 samples	G. Low
TF-88/89-03									
Krusenstern L. 69-52N 93-00W	Arctic Charr (land locked)	64mm	1 000	NOT FISHED					
Lady Melville L. 69-08N 92-30W	Arctic Charr (anadromous)	140mm	1 000	NOT FISHED					
L. Hansteen 69-45N 94-15W	Arctic Charr (land locked)	64mm	500	NOT FISHED					
Netsilik Lake 69-08N 92-30W	L. Whitefish	140mm	2 000	500	1 100	RRO	+/- 10%		
Sports River "Tourist" 68-40N 90-30W	Arctic Charr (anadromous)	140mm	1 000	NOT FISHED					
Tukingayuk L. 70-02N 93-07W	Arctic Charr (land locked)	64mm	500	NOT FISHED					
Unnamed Lake 69-06N 94-05W	Arctic Charr (land locked)	64mm	500	NOT FISHED					
Unnamed Lake 69-20N 92-35W	Arctic Charr (land locked)	64mm	500	NOT FISHED					
Unnamed Lake (Cape Gloucester) 69-49N 95-56W	Arctic Charr (land locked)	64mm	500	NOT FISHED					
Unnamed Lake (Kekektaktook) 69-49N 95-56W	Arctic Charr (land locked)	64mm	500	164	543	RRO	+/- 1%	141 samples	G. Low
	Lake Trout	64mm		164	361	RRO	+/- 1%	87 samples	G. Low

TABLE 3A.9 (continued)

SOUTH/CENTRAL ARCTIC AREA
EXPLORATORY FISHERIES
1988/89

Licence Number, Waterbody Name and Location	Species	Gear or Mesh Size	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
TF-88/89-04									
Coppermine area 67-50N 115-06W	Capelin	seine	250	NOT FISHED					
Unnamed Lake (Emagyok) 68-15N 116-40W	Arctic Charr (anadromous)	140mm	500	NOT FISHED					
Unnamed Lake (Kikiktalik) 68-11N 116-20W	Lake Trout	140mm	1 000	NOT FISHED					
Unnamed Lake (Pasley Cove) 68-24N 114-20W	Arctic Charr (anadromous)	140mm	500	NOT FISHED					
Unnamed Lake (Read Island) 69-12N 112-55W	Arctic Charr (anadromous)	140mm	1 000	1 000	$3 850	RRO	+/- 1%	95 samples	G. Low
TF-88/89-05									
Back River 67-15N 95-15W	Arctic Charr (anadromous)	140mm	2 000	NOT FISHED					
Barrow Lake 68-03N 96-40W	Cod Cod	140mm jigging	2 000 2 000	NOT FISHED					
Kaleet Lake 67-37N 97-45W	Cisco (ssp)	64mm	1 000	541	$1 190	RRO	+/- 1%	100 samples	G. Low
Port Parry Area 69-40N 97-20W	Arctic Charr (anadromous)	140mm	1 000	NOT FISHED					
Sherman Inlet 68-00N 98-20W	Arctic Charr (anadromous)	140mm	2 000	NOT FISHED					
Unnamed River (McLoughlin Bay) 67-47N 98-30W	Arctic Charr (anadromous)	140mm	1 000	NOT FISHED					
Unnamed R. (Kuptak) Elliot Bay 67-47N 98-30W	Arctic Charr (anadromous)	140mm	2 000	NOT FISHED					

TABLE 3A.9 (continued)

SOUTH/CENTRAL ARCTIC AREA
EXPLORATORY FISHERIES
1988/89

Licence Number, Waterbody Name and Location	Species	Gear or Mesh Size	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
TF-88/89-06									
Burnside River 66-50N 108-10W	Arctic Charr (anadromous)	140mm	1 000	1 000	$2 200	TFL	+/-10%	Effort data	G. Low
TF-88/89-07									
Contwoyto Lake 65-36N 110-39W	Lake Trout	140mm	2 000	NOT FISHED					
TF-88/89-11									
Bovie River 60-11N 122-56W	Whitefish	114mm	300	55	0	RRO	+/- 0%	5 samples	G. Low
TF-88/89-15									
Berens River 60-11N 122-56W	Whitefish	114mm	200	NOT FISHED					
Blackman Lake 60-12N 111-10W	Whitefish	114mm	200	NOT FISHED					
Star Lake 60-20N 110-46W	Whitefish	114mm	200	NOT FISHED					
Unnamed Lake (Mary) 60-20N 110-46W	Whitefish	114mm	200	NOT FISHED					
TF-88/89-23									
Nakyoktok River 66-50N 108-10W	Arctic Charr (anadromous)	140mm	1 500	1 000	$3 850	RRO	+/- 5%		
	Lake Trout			459	$1 767				
TF-88/89-28									
Hiukitak River 67-10N 107-10W	Arctic Charr (anadromous)	140mm	1 500	NOT FISHED					
Koignuk River (Hope Bay) 68-05N 106-40W	Arctic Charr (anadromous)	140mm	1 500	NOT FISHED					

Table 3A.10 South/Central Arctic Area
Commercial Fishing Licence Sales, by Community
1988/89

Community	Number of Licences Sold		
	Resident	Non-resident	Total
Cambridge Bay	36	0	36
Coppermine	9	0	9
Fort Simpson	1	0	1
Gjoa Haven	1	0	1
Hay River	113	1	114
Pelly Bay	22	0	22
Spence Bay	16	0	16
Yellowknife	17	0	17
Total	215	1	216

Table 3A.11 South/Central Arctic Area
Great Slave Lake Operator Licences
1988/89

	Class "A"		Class "B"	
	Summer	Winter	Summer	Winter
Number Available	28	32	80	30
Number Issued	18	31	50	29
Number Active	17	31	49	29

B. MARINE MAMMAL HARVESTS

Table 3B.1 South/Central Arctic Area Marine Mammal Harvests[a], by Species and Community, 1988/89

Community	Species	Number Landed	Data Source	Data Quality
Bathurst Inlet	Beluga	0	RRO	n/a
	Narwhal	0	RRO	n/a
	Walrus	0	RRO	n/a
Cambridge Bay	Beluga	0	RRO	n/a
	Narwhal	0	RRO	n/a
	Walrus	0	RRO	n/a
Coppermine	Beluga	0	RRO	n/a
	Narwhal	0	RRO	n/a
	Walrus	0	RRO	n/a
Gjoa Haven	Beluga	18[b]	RRO	+/- 20%
	Narwhal	2	LTA[d]	0 - 22
	Walrus	0	RRO	n/a
Pelly Bay	Beluga	0	LTA[d]	0 - 4
	Narwhal	0	TAG	n/a
	Walrus	0	RRO	n/a
Spence Bay	Beluga	28[b]	RRO	+/- 50 %
	Narwhal	1[c]	TAG	+/- 50 %
	Walrus	0	RRO	n/a
South/Central Arctic Totals	Beluga	46		
	Narwhal	3		
	Walrus	0		

[a] Quantities are landed harvest with no corrections for animals lost.
[b] Harvested at Creswell Bay.
[c] Harvested at Repulse Bay.
[d] Calculated from reports of harvests during the years 1978 to 1987.
n/a = not applicable

C. RECREATIONAL FISHERIES

Table 3C.1 Great Bear Lake Angler Diary Program
Response Rate
Summer 1988

Total Number of Guests	1 145
Number of Diaries Returned	791
Number Filled out Correctly	739
Response Rate	65%

Table 3C.2 Great Bear Lake Angler Diary Program
Comparison of 1987 and 1988 Results

	1987	1988
Number of Guests	1 319	1 145
Response Rates	37%	65%
Angling Days per Respondent	5.5	5.5
Estimated Total Angling Days	7 255	6 298
Catch per Angler Hour		
- Lake trout	1.26	1.16
- Northern pike	3.41	3.32
- Arctic grayling	3.28	3.48
- All Species	1.44	1.39
Harvest Estimates		
- Lake trout	8 955	7 058
- Northern pike	360	374
- Arctic grayling	2 756	2 294
- Other	17	45
- Total - All Species	12 088	9 771

Table 3C.3 Great Bear Lake Angler Diary Program Reported[a] Catch and Effort from Fly-out Arctic Charr Fishing Trips[b]

	1987	1988
Number of respondents reporting on charr fishing	194	358
Percent of total number of respondents	36%	45%
Total charr fishing days	252	529
Total charr fishing hours	1 196	2 749
Total charr catch	966	2 303
Total charr harvest	295	543

[a] No estimate of total fishing effort or harvest has been made for arctic charr because there is not sufficient information on the fly-out trips of all guests.

[b] Fly-out trips were most often to the Coppermine, Tree and Kugaryuak Rivers.

Table 3C.4 Blachford Lake Lodge Angler Diary Program Response Rate Summer 1988

Estimated Total Number of Guests Days	425
Number of Diaries Returned	56
Number of Guest Days of Anglers who Returned Diaries	244
% of Estimated Total Number of Guest Days Sampled in Diaries	57%

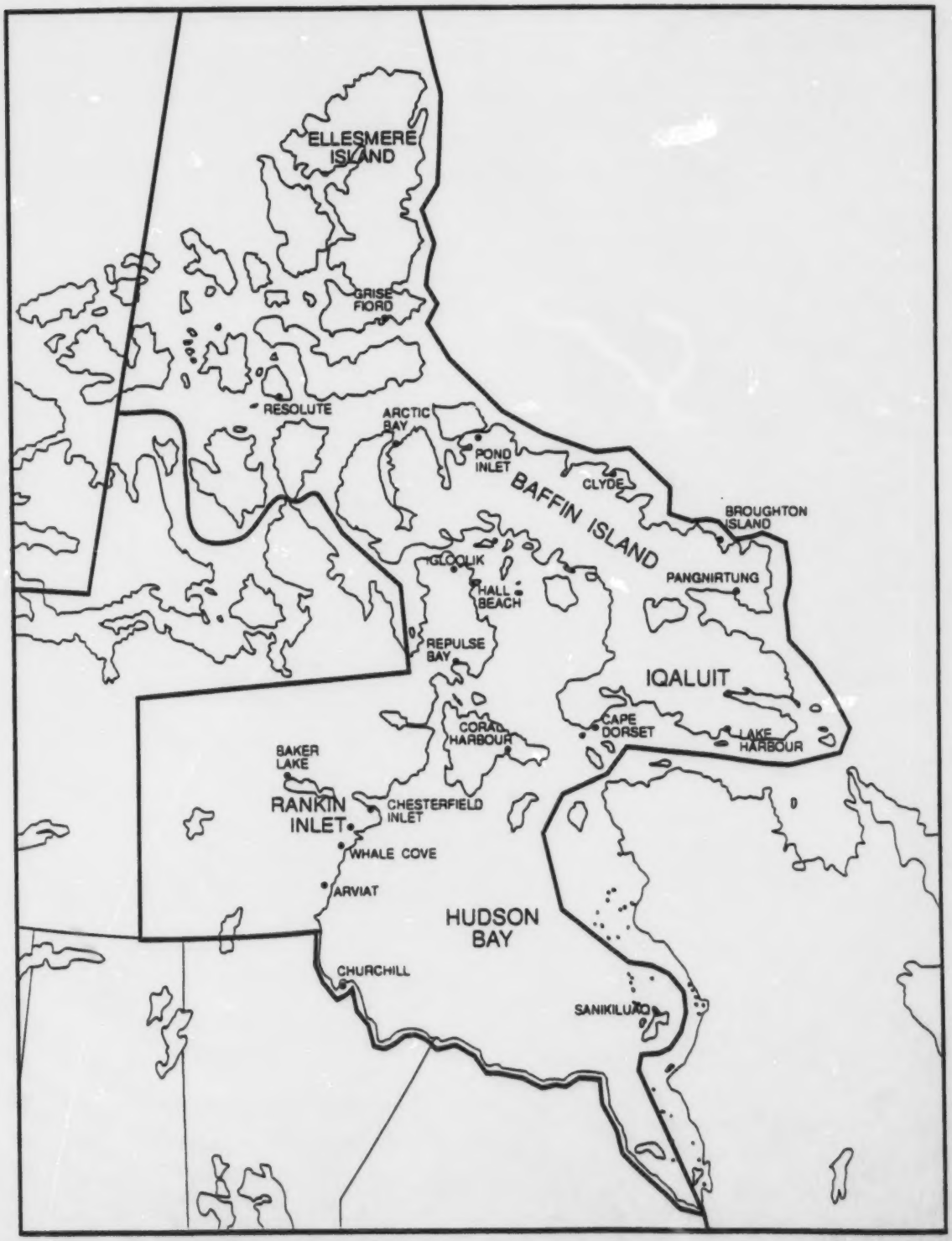
Table 3C.5 Blachford Lake Lodge Angler Diary Program
Trend Data

	1983	1984	1985	1986	1987	1988[a]
Number of Diaries Returned	135	59	67	55	55	56
Active Angler Days Reported	357	174	184	175	146	166
Average Angler Days per Diary	2.6	2.9	2.7	3.2	2.7	3.0
Catch per Angler Hour						
- Lake trout	0.72	0.56	0.68	0.82	0.62	0.74
- Northern pike	1.47	1.79	1.68	2.17	1.21	0.97
- All species	0.88	0.78	0.87	1.22	0.81	0.77
Harvest Estimates						
- Lake trout	n/a	n/a	n/a	n/a	n/a	282
- North pike	n/a	n/a	n/a	n/a	n/a	71
- Others	n/a	n/a	n/a	n/a	n/a	2
- All species	n/a	n/a	n/a	n/a	n/a	355

[a] 1988 was the first year in which sufficient, reliable information was available on the number of guest days of all guests to generate harvest estimates.

SECTION 4
EASTERN ARCTIC AREA

Figure 4
EASTERN ARCTIC AREA



EASTERN ARCTIC AREA
1988/89 STATISTICAL HIGHLIGHTS

Commercial and Exploratory Fisheries

- 64 waterbodies opened for commercial fishing under Schedule V of the N.W.T. Fisheries Regulations, of which 38 were fished;
- 579 commercial fishing licences sold in 18 Eastern Arctic communities;
- 33 waterbodies licensed for exploratory fisheries, of which 19 were fished;
- Total reported commercial and exploratory fishery landings of 299 927 kg and landed value of $ 622 387;
- Principal commercial species harvested were turbot (60% of landings) and arctic charr (34%).

Recreational Fisheries

- 2 342 recreational fishing licences sold, including 1 619 resident and 723 non-resident licences;
- 16 lodges with a total bed capacity of 250.

Marine Mammal Harvest

- Marine mammal landed harvest of 419 beluga, 268 narwhal and 389 walrus.

A. COMMERCIAL AND EXPLORATORY FISHERIES

Table 4A.1 Eastern Arctic Area, Schedule V Commercial Fisheries, Harvests and Landed Values, by Species, 1988/89

Species	Harvest (rd kgs)	Landed Value ($)
Arctic charr	90 180	270 546
Total	90 180	270 546

Table 4A.2 Eastern Arctic Area, Exploratory Fisheries Harvests and Landed Values, by Species, 1988/89

Species	Harvest (rd kgs)	Landed Value ($)
Arctic charr	12 547	37 641
Scallops	17 200	17 200
Turbot	180 000	297 000
Total	209 747	351 841

TABLE 4A.3

EASTERN ARCTIC AREA
BAFFIN DISTRICT
SCHEDULE V COMMERCIAL FISHERIES, BY COMMUNITY
1988/89

Community/ Waterbody Information	Species	Quota (rd kgs)	Harvest (rd kgs)	Landed Value	Data Source	Data Quality	Other Data Available	Contact
ARCTIC BAY								
Saputing River Sched. V No. : VI-45 Location : 70-47N 84-56W Open Season : 01Dec88-31Mar89	Arctic Charr (anadromous)	9 100	2 887	$9 527	STR	+/- 20%		
BROUGHTON ISLAND								
Circle Lake Sched. V No. : VI-8 Location : 66-32N, 64-10W Open Season : 01Jun88-31Mar89	Arctic Charr (land locked)	3 400	453	$1 495	STR	+/- 20%		
Padle River (Kingnait Fiord) Sched. V No. : VI-34 Location : 66-21N 64-22W Open Season : 01Jun88-31Mar89	Arctic Charr (anadromous)	3 600	900	$2 970	STR	+/- 20%		
Padle Fiord Area Sched. V No. : VI-35 Location : 66-55N 63-25W Open Season : 01Jun88-31Mar89	Arctic Charr (anadromous)	3 600	907	$2 993	STR	+/- 20%		
Nudlung Fiord Sched. V No. : VI-32 Location : 68-17N 67-45W Open Season : 01Jun88-31Mar89	Arctic Charr (anadromous)	4 500	1 000	$3 300	STR	+/- 20%		
CAPE DORSET								
Approach Lake Sched. V No. : VI-3 Location : 64-40N, 73-55W Open Season : 01Jun88-31Mar89	Arctic Charr (land locked)	5 500	NOT FISHED					
Camp Lake Sched. V No. : VI-6 Location : 64-40N, 73-57W Open Season : 01Jun88-31Mar89	Arctic Charr (anadromous)	2 700	NOT FISHED					

TABLE 4A.3 (continued)

EASTERN ARCTIC AREA
BAFFIN DISTRICT
SCHEDULE V COMMERCIAL FISHERIES, BY COMMUNITY
1988/89

Community/ Waterbody Information	Species	Quota (rd kgs)	Harvest (rd kgs)	Landed Value	Data Source	Data Quality	Other Data Available	Contact
CLYDE								
Ayr Lake Sched. V No. : VI-4 Location : 70-24N, 70-15W Open Season : 01Jun88-31Mar89	Arctic Charr (land locked)	6 800	NOT FISHED					
Cape Adair Lake and River Sched. V No. : VI-7 Location : 71-27N, 72-00W Open Season : 01Jun88-31Mar89	Arctic Charr (land locked)	2 300	NOT FISHED					
Sam Ford Fiord Area Sched. V No. : VI-44 Location : 70-25N 71-40W Open Season : 01Jun88-31Mar89	Arctic Charr (anadromous)	3 600	624	$2 059	STR	+/- 20%		
Unnamed Lake & River (Dexterity Fiord) Sched. V No. : VI-58 Location : 71-06N 72-45W Open Season : 05Dec88-31Mar89	Arctic Charr (anadromous)	900	PROBABLY NOT FISHED					
Unnamed River (North of Cape Raper) Sched. V No. : VI-56 Location : 66-55N 67-06W Open Season : 01Jul88-31Mar89	Arctic Charr (anadromous)	1 400	PROBABLY NOT FISHED					
Unnamed River Sched. V No. : VI-57 Location : 70-11N 80-40W Open Season : 01Jul88-31Mar89	Arctic Charr (land locked)	4 500	HARVEST UNKNOWN					
CRESSWELL BAY								
Stanwell-Fletcher Lake Sched. V No. : IV-33 Location : 72-39N, 94-41W Open Season : 01Jul88-31Mar89	Arctic Charr (anadromous)	6 800	1 909	$6 300	RRO	+/- 10%		

TABLE 4A.3 (continued)

EASTERN ARCTIC AREA
BAFFIN DISTRICT
SCHEDULE V COMMERCIAL FISHERIES, BY COMMUNITY
1988/89

Community/ Waterbody Information	Species	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
IGLOOLIK & HALL BEACH								
Cockburn River Sched. V No. : VI-10 Location : 70-27N, 78-34W Open Season : 01Jul88-31Mar89	Arctic Charr (anadromous)	5 000	NOT FISHED					
Erchsen Lake Sched. V No. : VI-15 Location : 70-40N 80-40W Open Season : 01Jul88-31Mar89	Arctic Charr (land locked)	2 000	NOT FISHED					
Gifford River Sched. V No. : VI-18 Location : 70-26N 83-40W Open Season : 01Jul88-31Mar89	Arctic Charr (anadromous)	3 600	3 632	$11 986	DCR	+/- 10%		
Hall Lake Sched. V No. : VI-19 Location : 68-41N 82-17W Open Season : 01Jul88-31Mar89	Arctic Charr (anadromous)	9 000	5 400	$17 820	STR	+/- 30%		
Isortog River and Lake Sched. V No. : VI-23 Location : 70-07N 76-30W Open Season : 01Jul88-31Mar89	Arctic Charr (anadromous)	5 000	NOT FISHED					
Kukaluk River Sched. V No. : VI-26 Location : 70-12N 81-55W Open Season : 01Jul88-31Mar89	Arctic Charr (unknown)	3 600	3 600	$11 880	DCR	+/- 20%		
Neergard Lake Sched. V No. : VI-29 Location : 70-18N 79-40W Open Season : 01Jul88-31Mar89	Arctic Charr (land locked)	4 500	NOT FISHED					
Ravn River Sched. V No. : VI-42 Location : 70-30N 79-50W Open Season : 01Jul88-31Mar89	Arctic Charr (anadromous)	9 100	4 836	$15 959	STR	+/- 10%		

TABLE 4A.3 (continued)

EASTERN ARCTIC AREA
BAFFIN DISTRICT
SCHEDULE V COMMERCIAL FISHERIES, BY COMMUNITY
1988/89

Community/ Waterbody Information	Species	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
IGLOOLIK & HALL BEACH (continued)								
Rowley River								
Sched. V No. : VI-43	Arctic Charr	5 000	NOT FISHED					
Location : 70-23N 77-12W	(anadromous)							
Open Season : 01Jul88-31Mar89								
Tarsuaq Arm River and Lake								
Sched. V No. : VI-46	Arctic Charr	2 500	NOT FISHED					
Location : 70-35N 78-55W	(anadromous)							
Open Season : 01Jul88-31Mar89								
Unnamed River and Lake								
Sched. V No. : VI-62	Arctic Charr	2 500	NOT FISHED					
Location : 70-21N, 78-24W	(anadromous)							
Open Season : 01Jul88-31Mar89								
Whyte Lake and River								
Sched. V No. : VI-50	Arctic Charr	2 300	NOT FISHED					
Location : 70-10N 84-42W	(anadromous)							
Open Season : 01Jul88-31Mar89								
IQALUIT								
Nettilling Lake								
Sched. V No. : VI-31	Arctic Charr	22 700	NOT FISHED					
Location : 66-33N 71-00W	(anadromous)							
Open Season : 01Sep88-30Sep88								
Open Season : 01Jan89-31Mar88	Arctic Charr (anadromous)	22 700	NOT FISHED					
Okalik Bay								
Sched. V No. : VI-33	Arctic Charr	1 400	1 310	$4 323	STR	+/- 20%		
Location : 64-02N 65-15W	(anadromous)							
Open Season : 01Jun88-31Mar89								
Qualluatik Lake								
Sched. V No. : VI-41	Arctic Charr	700	700	$2 310	STR	+/- 20%		
Location : 63-46N 65-07W	(anadromous)							
Open Season : 01Oct88-31Mar89								

TABLE 4A.3 (continued)

EASTERN ARCTIC AREA
BAFFIN DISTRICT
SCHEDULE V COMMERCIAL FISHERIES, BY COMMUNITY
1988/89

Community/ Waterbody Information	Species	Quota (rd kgs)	Harvest (rd kgs)	Landed Value	Data Source	Data Quality	Other Data Available	Contact
PANGNIRTUNG								
Freshwater Lake Sched. V No. : VI-17 Location : 66-15N, 68-00W Open Season : 01Jul88-31Aug88	Arctic Charr (land locked)	4 500	4 200	$13 860	STR	+/- 20%		
Irvine Inlet (McKeand River) Sched. V No. : VI-22 Location : 65-30N 68-00W Open Season : 01Jul88-31Mar89	Arctic Charr (anadromous)	4 500	2 106	$6 950	STR	+/- 20%		
Kingnait Fiord Sched. V No. : VI-24 Location : 66-53N 64-18W Open Season : 01Jan89-31Mar89	Arctic Charr (anadromous)	4 500	6 018	$19 859	STR	+/- 20%		
Kipisa Lake Sched. V No. : VI-25 Location : 66-33N 67-57W Open Season : 01Apr88-31Mar89	Arctic Charr (anadromous)	1 400	2 172	$7 168	RRO	+/- 20%		
Unnamed Fiord (Cumberland Sound) Sched. V No. : VI-52 Location : 65-43N 64-51W Open Season : 01Jul88-31Aug88	Arctic Charr (anadromous)	1 400	1 100	$3 630	STR	+/- 20%		
POND INLET								
Ikaluit River (Tay Sound) Sched. V No. : VI-20 Location : 71-58N 79-15W Open Season : 01Oct88-31Mar89	Arctic Charr (anadromous)	2 300	2 246	$7 412	STR	+/- 20%		
Paquet Bay River and Lake Sched. V No. : VI-37 Location : 71-38N 77-20W Open Season : 01Oct88-31Mar89	Arctic Charr (anadromous)	1 000	NOT FISHED					
Tugaat River Sched. V No. : VI-48 Location : 72-03N 80-40W Open Season : 01Oct88-31Mar89	Arctic Charr (anadromous)	1 000	NOT FISHED					

TABLE 4A.4

EASTERN ARCTIC AREA
KEEWATIN DISTRICT
SCHEDULE V COMMERCIAL FISHERIES, BY COMMUNITY
1988/89

Community/ Waterbody Information	Species	Quota (rd kgs)	Harvest (rd kgs)	Landed Value	Data Source	Data Quality	Other Data Available	Contact
ARVIAT								
Copperneedle R. Sched. V No. : V-20 Location : 61-52N, 93-37W Open Season : 01Jun88-31Oct88	Arctic Charr (anadromous)	4 500	1 970	$6 508	STR	+/- 10%	54 samples	Carder and Stewart (1989)
Eskimo Point Sched. V No. : V-28 Location : 61-07N 94-04W Open Season : 01Jun88-31Oct88	Arctic Charr (anadromous)	4 500	4 567	$14 850	STR	+/- 10%		
Maguse River Sched. V No. : V-45 Location : 61-17N 94-03W Open Season : 01Jun88-31Oct88	Arctic Charr (anadromous)	4 500	3 022	$9 973	STR	+/- 10%	231 samples	Carder and Stewart (1989)
Sandy Point Sched. V No. : V-66 Location : 61-45N 93-18W Open Season : 01Jun88-31Oct88	Arctic Charr (anadromous)	900	900	$2 970	STR	+/- 10%		
Wallace River Sched. V No. : V-76 Location : 61-36N 93-40W Open Season : 01Jul88-31Mar89	Arctic Charr (anadromous)	2 300	NOT FISHED					
BAKER LAKE								
Baker Lake Sched. V No. : V-3 Location : 64-00N, 96-00W Open Season : 01Apr88-31Mar89	Whitefish) Lake Trout)	22 700	HARVEST UNKNOWN					

TABLE 4A.4 (continued)

EASTERN ARCTIC AREA
KEEWATIN DISTRICT
SCHEDULE V COMMERCIAL FISHERIES, BY COMMUNITY
1988/89

Community/ Waterbody Information	Species	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
CHESTERFIELD INLET								
Big River (Barbour Bay)								
Sched. V No. : V-9	Arctic Charr (anadromous)	900	NOT FISHED					
Location : 63-33N, 92-27W								
Open Season : 25Nov88-31Mar89								
Chesterfield Inlet (Fish Bay)								
Sched. V No. : V-16	Arctic Charr (anadromous)	4 600	5 050	$16 658	STR	+/- 10%	Carder and Stewart (1989)	
Location : 63-18N, 90-45W								
Open Season : 01Jun88-31Oct88								
Merle Harbour								
Sched. V No. : V-48	Arctic Charr (anadromous)	2 300	NOT FISHED					
Location : 63-42N 91-24W								
Open Season : 01Jun88-31Oct88								
Open Season : 01Nov88 31Mar89	Arctic Charr (anadromous)	2 300	NOT FISHED					
Ranger Seal Bay								
Sched. V No. : V-63	Arctic Charr (anadromous)	9 100	NOT FISHED					
Location : 63-45N 91-40W								
Open Season : 01Jun88-31Mar89								
Robin Hood Bay								
Sched. V No. : V-65								
Location : 63-45N 92-02W	Arctic Charr (anadromous)	6 800	1 540	$5 075	STR	+/- 10%	93 samples	Carder and Stewart (1989)
Open Season : 01Jun88-31Oct88								
Open Season : 01Nov88-31Mar89	Arctic Charr (anadromous)	5 200	NOT FISHED					
Steep Bank Bay								
Sched. V No. : V-71	Arctic Charr (anadromous)	4 500	18	$ 59	RRO	+/- 0%		
Location : 63-36N 91-37W								
Open Season : 01Jun88-31Mar89								
Stony Point								
Sched. V No. : V-72	Arctic Charr (anadromous)	6 800	HARVEST UNKNOWN					
Location : 63-54N 92-45W								
Open Season : 01Jun88-31Oct88								
Open Season : 01Nov88-31Mar89	Arctic Charr (anadromous)	3 500	3 257	$10 745	STR	+/- 10%	107 samples	Carder and Stewart (1989)

TABLE 4A.4 (continued)

EASTERN ARCTIC AREA
KEEWATIN DISTRICT
SCHEDULE V COMMERCIAL FISHERIES, BY COMMUNITY
1988/89

Community/ Waterbody Information	Species	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
CHURCHILL								
Churchill River								
Sched. V No. : V-17	Arctic Charr (anadromous)	500	HARVEST UNKNOWN					
Location : 58-47N, 94-12W	Whitefish	500	"	"				
Open Season : 01Jun88-31Oct88	Cisco	500	"	"				
CORAL HARBOUR								
Cleveland River								
Sched. V No. : V-19	Arctic Charr (anadromous)	6 100	NOT FISHED					
Location : 65-10N, 84-48W								
Open Season : 01Aug88-30Sep88								
Thomsen River (Duke of York Bay)								
Sched. V No. : V-75	Arctic Charr (anadromous)	8 400	NOT FISHED					
Location : 65-28N 85-16W								
Open Season : 01Aug88-30Sep88								
RANKIN INLET								
Baker Foreland Lake								
Sched. V No. : V-4	Arctic Charr (anadromous)	4 600	4 414	$14 566	STR	+/- 10%	33 samples	Carder and Stewart (1989)
Location : 62-51N, 90-55W								
Open Season : 01Jun88-31Oct88								
Corbett Inlet								
Sched. V No. : V-21	Arctic Charr (anadromous)	4 500	5 440	$17 959	STR	+/- 10%	206 samples	Carder and Stewart (1989)
Location : 62-28N, 92-20W								
Open Season : 01Jun88-31Oct88								
Piksimak River (Douglas Harbour)								
Sched. V No. : V-58	Arctic Charr (anadromous)	2 300	205	$677	STR	+/- 10%		
Location : 63-37N 88-25W								
Open Season : 01Apr88-31Mar89								

TABLE 4A.4 (continued)

EASTERN ARCTIC AREA
KEEWATIN DISTRICT
SCHEDULE V COMMERCIAL FISHERIES, BY COMMUNITY
1988/89

Community/ Waterbody Information	Species	Quota (rd kgs)	Harvest (rd kgs)	Landed Value	Data Source	Data Quality	Other Data Available	Contact
REPULSE BAY								
Curtis River (Committee Bay) Sched. V No. : IV-7 Location : 67-12N 87-28W Open Season : 01Oct88-31Mar89	Arctic Charr (anadromous)	4 500	1 360	$4 488	STR	+/- 10%		
Gore Bay area Sched. V No. : V-34 Location : 66-22N 84-25W Open Season : 01Jun88-31Mar89	Arctic Charr (anadromous)	3 600	NOT FISHED					
Haviland Bay Area Sched. V No. : V-37 Location : 66-31N 85-25W Open Season : 01Jun88-31Oct88	Arctic Charr (anadromous)	2 300	NOT FISHED					
Snowbank River Sched. V No. : V-69 Location : 65-54N 86-30W Open Season : 15Nov88-31Mar89	Arctic Charr (anadromous)	2 300	HARVEST UNKNOWN					
WHALE COVE								
Ferguson River Sched. V No. : V-29 Location : 62-04N 93-20W Open Season : 01Jun88-31Oct88	Arctic Charr (anadromous)	13 600	4 955	$16 348	STR	+/- 10%	104 samples	Carder and Stewart (1989)
Open Season : 01Nov88-31Mar89	Arctic Charr (anadromous)	8 600	NOT FISHED					

TABLE 4A.4 (continued)

EASTERN ARCTIC AREA
KEEWATIN DISTRICT
SCHEDULE V COMMERCIAL FISHERIES, BY COMMUNITY
1988/89

Community/ Waterbody Information	Species	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
WHALE COVE (continued)								
Mistake Bay Sched. V No. : V-49 Location : 62-10N 92-57W Open Season : 01Jun88-31Oct88	Arctic Charr (anadromous)	2 300	NOT FISHED					
Pistol Bay Sched. V No. : V-59 Location : 62-28N 92-44W Open Season : 01Jun88-31Oct88	Arctic Charr (anadromous)	2 300	1 707	$5 634	STR	+/- 10%	76 samples	Carder and Stewart (1989)
Open Season : 25Nov88-31Mar89	Arctic Charr (anadromous)	600	NOT FISHED					
Wilson Bay Sched. V No. : V-79 Location : 62-18N 92-53W Open Season : 01Jun88-31Mar89	Arctic Charr (anadromous)	10 000	5 778	$19 067	STR	+/- 10%	109 samples	Carder and Stewart (1989)

TABLE 4A.5

EASTERN ARCTIC AREA
EXPLORATORY FISHERIES
1988/89

Licence Number, Waterbody Name and Location	Species	Gear or Mesh Size	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
TF-88/89-09									
Thompson River (Duke of York Bay) 65-28N 85-16W	Arctic Charr (anadromous)	140mm	8 400	NOT FISHED					
TF-88/89-12									
Belcher Island Area	Blue Mussels	pole net	200	0	0			Report	D. Pike
TF-88/89-13									
Unnamed Lake Pr. of Wales Is. 73-21N 97-42W	Arctic Charr (anadromous)	140mm	1 000	NOT FISHED					
TF-88/89-14									
Brown River/Lake 63-57N 94-16W	Arctic Charr (anadromous)	140mm	1 000	1 093	$3 607	FO	+/- 10%	210 samples	D. Pike
TF-88/89-16									
Ross Inlet 67-09N 87-16W	Arctic Charr (anadromous)	140mm	2 500	550	$1 815	STR	+/- 10%		
Tasirjuaq River 67-04N 84-52W	Arctic Charr (anadromous)	140mm	2 500	1 526	$5 035	STR	+/- 10%		
TF-88/89-18									
Unnamed Lake (Iqaluaiuit) 63-29N 65-05W	Arctic Charr (anadromous)	140mm	1 400	1 056	$3 485	STR	+/- 10%	103 samples	D. Pike
TF-88/89-19									
Ivisarak Lake 70-34N 86-20W	Arctic Charr (anadromous)	140mm	2 000	2 000	$6 600	STR	+/- 10%		
Jungersen River 71-23N 84-37W	Arctic Charr (anadromous)	140mm	1 000	656	$2 165	STR	+/- 20%	100 samples	D. Pike
Magda River 71-39N 84-37W	Arctic Charr (anadromous)	140mm	2 000	2 247	$7 415	STR	+/- 20%	103 samples	D. Pike

TABLE 4A.5 (continued)

EASTERN ARCTIC AREA
EXPLORATORY FISHERIES
1988/89

Licence Number, Waterbody Name and Location	Species	Gear or Mesh Size	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
TF-88/89-20									
Thlewiaza River System 60-28N 94-45W	Arctic Charr (anadromous)	140mm	2 000	0	0				
TF-88/89-21									
Unnamed Lake (Fox Charlie) 68-43N 68-42W	Arctic Charr (anadromous)	140mm	1 000	NOT FISHED					
TF-88/89-22									
Unnamed Lake (1) (Cross Bay) 63-47N 93-32W	Arctic Charr (anadromous)	140mm	1 000	0	0				
Unnamed Lake (2) (Cross Bay) 63-43N 93-20W	Arctic Charr (anadromous)	140mm	1 000	0	0				
Unnamed Lake (3) (Cross Bay) 63-46N 93-15W	Arctic Charr (anadromous)	140mm	1 000	0	0				
TF-88/89-24									
Unnamed Lake (Chesterfield In.) 63-44N 92-35W	Arctic Charr (anadromous)	140mm	1 000	NOT FISHED					

TABLE 4A.5 (continued)

EASTERN ARCTIC AREA
EXPLORATORY FISHERIES
1988/89

Licence Number, Waterbody Name and Location	Species	Gear or Mesh Size	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
TF-88/89-25									
Naulinlavik Lake 65-13N 63-50W	Arctic Charr (anadromous)	140mm	1 000	353	$1 165	RRO	+/- 5%	100 samples	D. Pike
Kipisa Lake 66-33N 67-57W	Arctic Charr (anadromous)	140mm	2 400	804	$2 653	STR	+/- 20%		
Opingivik Lake 65-14N 67-22W	Arctic Charr (anadromous)	140mm	2 400	NOT FISHED					
Unnamed Lake (Anaktuayuit) 65-17N 64-05W	Arctic Charr (anadromous)	140mm	1 000	NOT FISHED					
Unnamed Lake (Anguyatutit) 65-05N 63-42W	Arctic Charr (anadromous)	140mm	1 000	NOT FISHED					
Unnamed Lake (Ikpit) 65-26N 67-38W	Arctic Charr (anadromous)	140mm	1 000	6	$20	RRO	+/- 0%	2 samples	D. Pike
Unnamed Lake (Iyaravung) 66-43N 67-48W	Arctic Charr (anadromous)	140mm	1 400	403	$1 419	RRO	+/- 10%		
Unnamed Lake (Qanayutuk) 65-21N 67-32W	Arctic Charr (anadromous)	140mm	1 000	121	399	RRO	+/- 5%	41 samples	D. Pike

TABLE 4A.5 (continued)

EASTERN ARCTIC AREA
EXPLORATORY FISHERIES
1988/89

Licence Number, Waterbody Name and Location	Species	Gear or Mesh Size	Quota (rd kgs)	Harvest	Landed Value	Data Source	Data Quality	Other Data Available	Contact
TF-88/89-26									
Patualik Lake 63-07N 65-55W	Arctic Charr (anadromous)	140mm	300	NOT FISHED					
Qamanirjuaq Lake 63-15N 64-33W	Arctic Charr (anadromous)	140mm	300	NOT FISHED					
Unnamed Lake (Trout) 63-04N 65-45W	Arctic Charr and L. Trout	140mm	500	NOT FISHED					
TF-88/89-27									
Unnamed Lake (Blanford Bay) 63-31N 71-13W	Arctic Charr (anadromous)	140mm	1 000	NOT FISHED					
Unnamed Lake (North of Pritzler Harbour) 62-10N 67-22W	Arctic Charr (anadromous)	140mm	400	NOT FISHED					
Unnamed Lake (Bond Inlet) 62-15N 67-39W	Arctic Charr (anadromous)	140mm	500	NOT FISHED					
Unnamed Lake (East of Gammarus Cove) 61-58N 66-25W	Arctic Charr (anadromous)	140mm	500	NOT FISHED					
EF-88/89-01									
Cumberland Sound	Turbot	long lines	250 000	180 000	$297 000	EFL	+/- 15%	130 samples CPU	D. Pike
EF-88/89-02									
Cumberland Sound	Scallops	drags	100 000	17 200	$17 000	EFL	+/- 20%	samples CPU	D. Pike

Table 4A.6 Eastern Arctic Area
Commercial Fishing Licence Sales, by Community
1988/89

Community	Number of Licences Sold		
	Resident	Non-resident	Total
Arctic Bay	24	0	24
Arviat	144	0	144
Baker Lake	21	0	21
Broughton Island	16	0	16
Cape Dorset	3	0	3
Chesterfield Inlet	52	0	52
Churchill	0	12	12
Clyde	9	0	9
Coral Harbour	11	0	11
Hall Beach	20	0	20
Igloolik	17	0	17
Iqaluit	12	0	12
Pangnirtung	116	0	116
Pond Inlet	14	0	14
Rankin Inlet	35	0	35
Repulse Bay	22	0	22
Resolute Bay	2	0	2
Whale Cove	49	0	49
Total	567	12	579

B. MARINE MAMMAL HARVESTS

Table 4B.1 Eastern Arctic Area
Marine Mammal Harvests,
by Region and Species, 1988/89

Region	Beluga	Narwhal	Walrus
High Arctic	91	228	213
South Baffin/ Hudson Strait	109	3	93
West Hudson Bay	199	37	75
East Hudson Bay	20	0	5
Total	419	268	386

Table 4B.2 Eastern Arctic Area
Marine Mammal Harvests,
by Community and Species, 1988/89

Region/Community	Species	Number Landed	Data Source	Data Quality	Years with Reported Harvest used in LTA
High Arctic					
Arctic Bay	Beluga	4	LTA	0 - 31	1973,1974,1977-87
	Narwhal	86	TAG	+ 10%	
	Walrus	2	RRO	+ 50%	
Broughton Island	Beluga	2	RRO	+ 50%	
	Narwhal	26	TAG	+ 10%	
	Walrus	12	RRO	+ 50%	
Clyde River	Beluga	13	LTA	0 - 37	1973,1974,1977-87
	Narwhal	44	TAG	+ 10%	
	Walrus	1	RRO	+ 1000%	

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Table 48.2 (continued) Eastern Arctic Area
Marine Mammal Harvest,
by Community and Species, 1988/89

Region/Community	Species	Number Landed	Data Source	Data Quality	Years with Reported Harvest used in LTA
High Arctic (continued)					
Cresswell Bay	Beluga	20	RRO	+ 10%	
	Narwhal	12	TAG	+ 10%	
	Walrus	1	RRO	+ 100%	
Grise Fiord	Beluga	25	FO	+ 10%	
	Narwhal	7	TAG	+ 10%	
	Walrus	8	FO	+ 50%	
Hall Beach	Beluga	3	RRO	+ 300%	
	Narwhal	0	TAG	+ 100	
	Walrus	61	RRO	+ 200%	
Igloolik	Beluga	14	RRO	+ 30%	
	Narwhal	0	TAG	unknown	
	Walrus	124	RRO	+ 100%	
Pond Inlet	Beluga	3	LTA	0 - 26	1973,1974,1977-87
	Narwhal	53	TAG	+ 10%	
	Walrus	2	RRO	+ 100%	
Resolute Bay	Beluga	7	RRO	+ 50%	
	Narwhal	0	TAG	n/a	
	Walrus	2	RRO	+ 100%	
South Baffin/Hudson Strait					
Cape Dorset	Beluga	10	RRO	+ 200%	
	Narwhal	1	TAG	n/a	
	Walrus	35	LTA	4 - 72	1973,1974,1976-85,1987
Iqaluit	Beluga	44	FO	+/- 10%	
	Narwhal	0	TAG	n/a	
	Walrus	10	FO	+ 300%	
Lake Harbour	Beluga	9	RRO	+/- 10%	
	Narwhal	0	TAG	unknown	
	Walrus	4	RRO	+/- 10%	
Pangnirtung	Beluga	46	RRO	+/- 5%	
	Narwhal	2	TAG	+ 50%	
	Walrus	44	RRO	+ 20%	

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Table 48.2 (continued) Eastern Arctic Area
Marine Mammal Harvest,
by Community and Species, 1988/89

Region/Community	Species	Number Landed	Data Source	Data Quality	Years with Reported Harvest used in LTA
West Hudson Bay					
Arviat	Beluga	45	LTA	0 - 122	1973-87
	Narwhal	0	TAG	n/a	
	Walrus	3	LTA	0 - 10	1979-87
Chesterfield Inlet	Beluga	15	LTA	0 - 43	1974,1976-87
	Narwhal	0	TAG	n/a	
	Walrus	11	LTA	0 - 34	1975,1976,1978-86
Churchill	Beluga[a]	11	LTA	4 - 23	1973-77,79-81,83-87
	Narwhal	0	TAG	n/a	
	Walrus	0	LTA	0	never harvested
Coral Harbour	Beluga	38	LTA	2 - 116	1972-87
	Narwhal	12	TAG	n/a	
	Walrus	41	LTA	11 - 67	1972-87
Rankin Inlet	Beluga	27	LTA	0 - 69	1974-87
	Narwhal	0	TAG	n/a	
	Walrus	5	LTA	0 - 15	1975-87
Repulse Bay	Beluga	47	LTA	0 - 300	1972-74,1976-87
	Narwhal	25	TAG	+ 20%	
	Walrus	13	LTA	0 - 35	1972,1973,1976-87
Whale Cove	Beluga	16	LTA	0 - 37	1973-87
	Narwhal	0	TAG	n/a	
	Walrus	2	LTA	0 - 6	1976,1978-87
Eastern Hudson Bay					
Sanikiluaq	Beluga	20	LTA	2 - 91	1973-75,77,78,81-87
	Narwhal	0	TAG	n/a	
	Walrus	5	LTA	1 - 10	1973,75-78,81-87

[a] includes live capture
n/a = not applicable

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APPENDIX 1
FINAL PAYMENTS

The FFMC operates a two payment pricing system. Initial payments are set on a percentage of the projected selling price of products. Final payments depend on whether the actual market selling prices are more, the same, or less than projected. They are usually made in the November or December following the FFMC's fiscal year end.

The following table shows the final payments made for the species harvested in the Northwest Territories for the past five years.

Freshwater Fish Marketing Corporation
Final Payments
by Species and Fiscal Year

($ per round equivalent kg)

Species	1984/85	1985/86	1986/87	1987/88	1988/89
Whitefish					
Export	0.28	0.13	0.06	0.37	0.40
Continental	--	0.13	0.06	--	--
Smoker	0.27	0.13	--	--	0.40
Walleye	0.68	0.67	1.98	2.22	0.44
Lake Trout	0.27	0	0	0.22	0
Northern Pike	0.42	0.31	0.62	0.43	0.31
Arctic Charr	0.76	0.11	0.96	3.01	1.13
Inconnu	0.40	0.20	0.46	0.69	0.47
Burbot	--	--	0	0	--
Mullet (suckers)	--	--	--	--	0

-- no sales